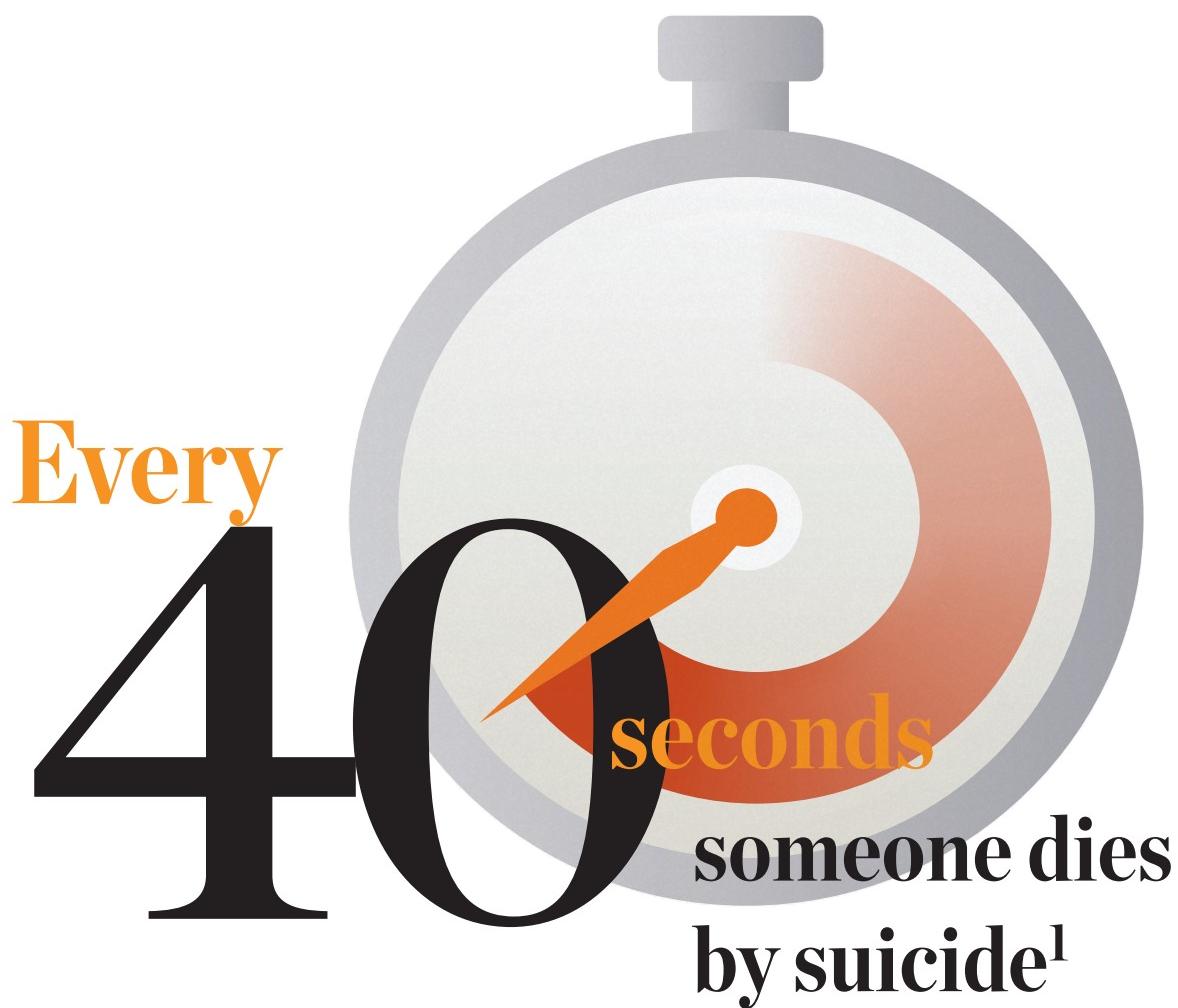


MENTAL HEALTH AND SUICIDE PREVENTION

LUNDBECK'S RECOMMENDATIONS AND COMMITMENTS



If you are thinking of suicide or are in immediate danger, please contact your local emergency services, your doctor and/or your nearest mental health crisis center. You can find a list of crisis centres around the world here:
www.iasp.info/resources/Crisis_Centres/



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KEY MESSAGES
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1.

Due to high suicide rates, suicide prevention is a global imperative, for which national governments will be expected to deliver and report to the UN by 2030

2.

Although suicide rates are high and suicidal behaviour is complex, it is preventable by addressing risk factors, leveraging protective factors and improving healthcare systems

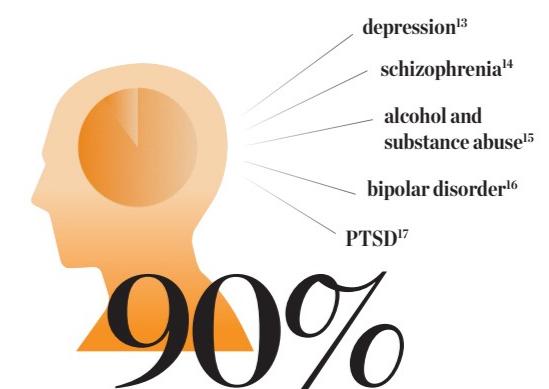
3.

Suicide is not only a health issue: it is a societal one. A multi-sectoral societal approach to national prevention plans is needed to help prevent suicides

4.

As a leader in restoring brain health, Lundbeck is committed to supporting mental health promotion and suicide prevention strategies

The presence of a mental health condition is a key risk factor: more than 90% of persons who die by suicide are associated with mental disorders¹², for example as:



The lifetime risk of suicide is estimated to be 4%¹³ in patients with mood disorders, 8% in people with alcohol dependence¹⁸, 8% in people with bipolar disorder¹⁹, and 5% in people with schizophrenia²⁰

GLOSSARY: DEFINITIONS

SUICIDAL BEHAVIOUR Range of behaviours that include suicide ideation (thinking about suicide, planning for suicide), attempting suicide and suicide itself¹

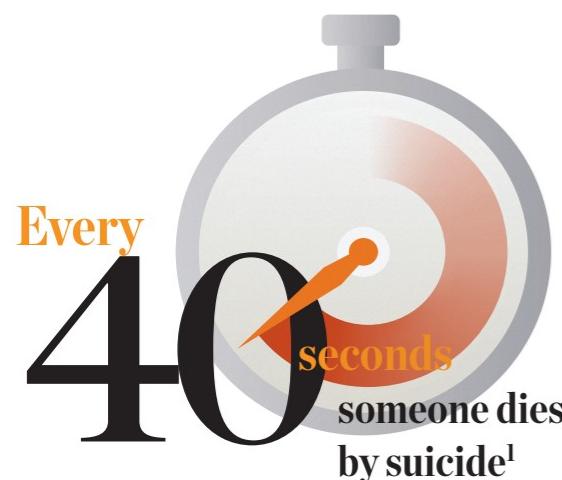
SUICIDAL IDEATION Thinking about, considering or planning suicide⁴⁹. DSM-5 includes suicidal ideation as a symptom of major depressive episodes⁵⁰

SUICIDE PLANNED ATTEMPT Not-fatal, self-directed, potentially injurious behaviour with intent to die (might not result in injury)⁵¹. DSM-5 includes suicide attempts as a symptom of major depressive episodes⁵⁰

SUICIDE The act of deliberately killing oneself¹

1.

Due to high suicide rates, suicide prevention is a global imperative, for which national governments will be expected to deliver and report to the UN by 2030



Annually, this represents over **800,000 people** that die by suicide², which is more than people dying by war and homicide put together³. In Canada, suicide is as common as opioid deaths⁴

10%

In 2013, the WHO Member States committed to work towards the global target of reducing suicide rates by 10% by 2020¹



In 2015, **the United Nations Member States agreed to monitor suicide rates** to assess the progress on mental health and wellbeing, which is an indicator for Goal #3 of the Sustainable Development Goals¹¹

About 45% of people who die by suicide consulted a primary care physician within 1 month of death²



In the US, the cost of suicides and suicide attempts in 2013 was

USD \$58.4 Bn

97.1% of which are due to lost productivity (indirect costs)⁹

In Australia, the associated cost of suicide is estimated at

AUD \$6.73 Bn¹⁰

Suicide is the second leading cause of death in 15-29-year-olds⁵

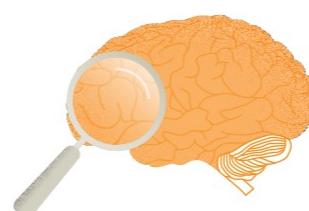
2.

Although suicide rates are high and suicidal behaviour is complex, it is preventable by addressing risk factors, leveraging protective factors and improving healthcare systems

Suicidal behaviour is complex:

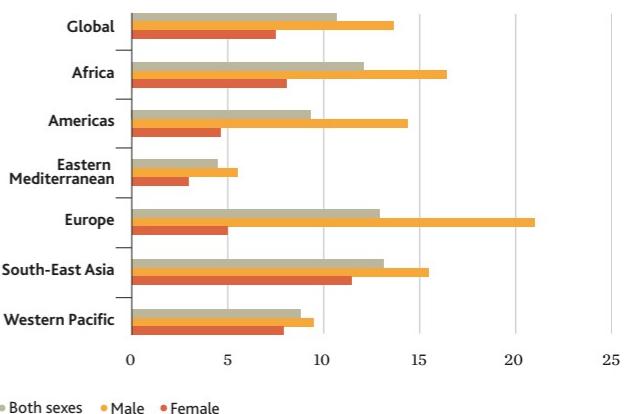


it is rare that a single risk factor leads to suicidal behaviour. Several risk factors act cumulatively to increase an individual's vulnerability to suicidal behaviour¹



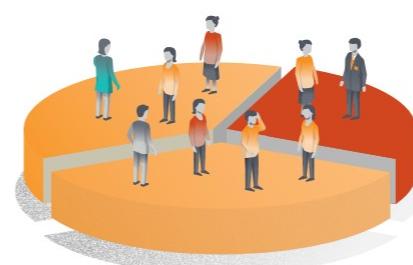
Post-mortem research in the brains of those who have died by suicide concluded that **neurobiological factors** may influence a person's risk of suicide, e.g. suicide victims' frontal cortex of the brain is shown with low serotonin level (typically correlated with depression) and a higher than normal level of cortisol (typically high in stressful situations)²¹

Suicide rate per 100,000 population by WHO region, 2016



Source: World Health Organization, 2017, Depression and Other Common Mental Disorders - Global Health Estimates.

Suicide socio-demographics and people at risk



- People experiencing poverty and social instability are more at risk of suicide attempts²⁹
- Professions at risk include police force, military after deployment and HCPs (dentists, psychiatrists and ophthalmologists)³⁰
- Prisoners³¹
- People experiencing loss (e.g. job, home, partner, family member)³² and/or social and demographic change (e.g. from school to college, from college to the workforce, moving, etc)³³
- Women make twice as many suicide attempts as men and suicide ranks as the number one cause of mortality in young girls between the ages 15-19 years globally³⁴
- Except for China, in most countries, men die by suicide at 2-4 times the rate of women³⁴ suggesting that many men have undiagnosed mental health issues³⁵
- Second generation immigrants³⁶ and LGBTQ (Lesbian, Gay, Bisexual, Transgender, Questioning) people are at risk of suicidal behaviour³⁷

SUICIDE RISK FACTORS INCLUDE

- Stigma leading to unwillingness to seek help⁷
- Difficulties in accessing treatment⁷, feelings of hopelessness²² or isolation⁷
- Loss (relational, social, work, or financial)⁷
- Previous suicide attempt(s)⁷
- The presence of a mental health condition¹²
- Chronic pain and disease²³ (cancer²⁴, diabetes²⁵, HIV/AIDS¹, Parkinson's disease²⁶, Alzheimer's disease²⁷)
- Child maltreatment⁷
- Family history of suicide²⁸

Suicide is preventable³

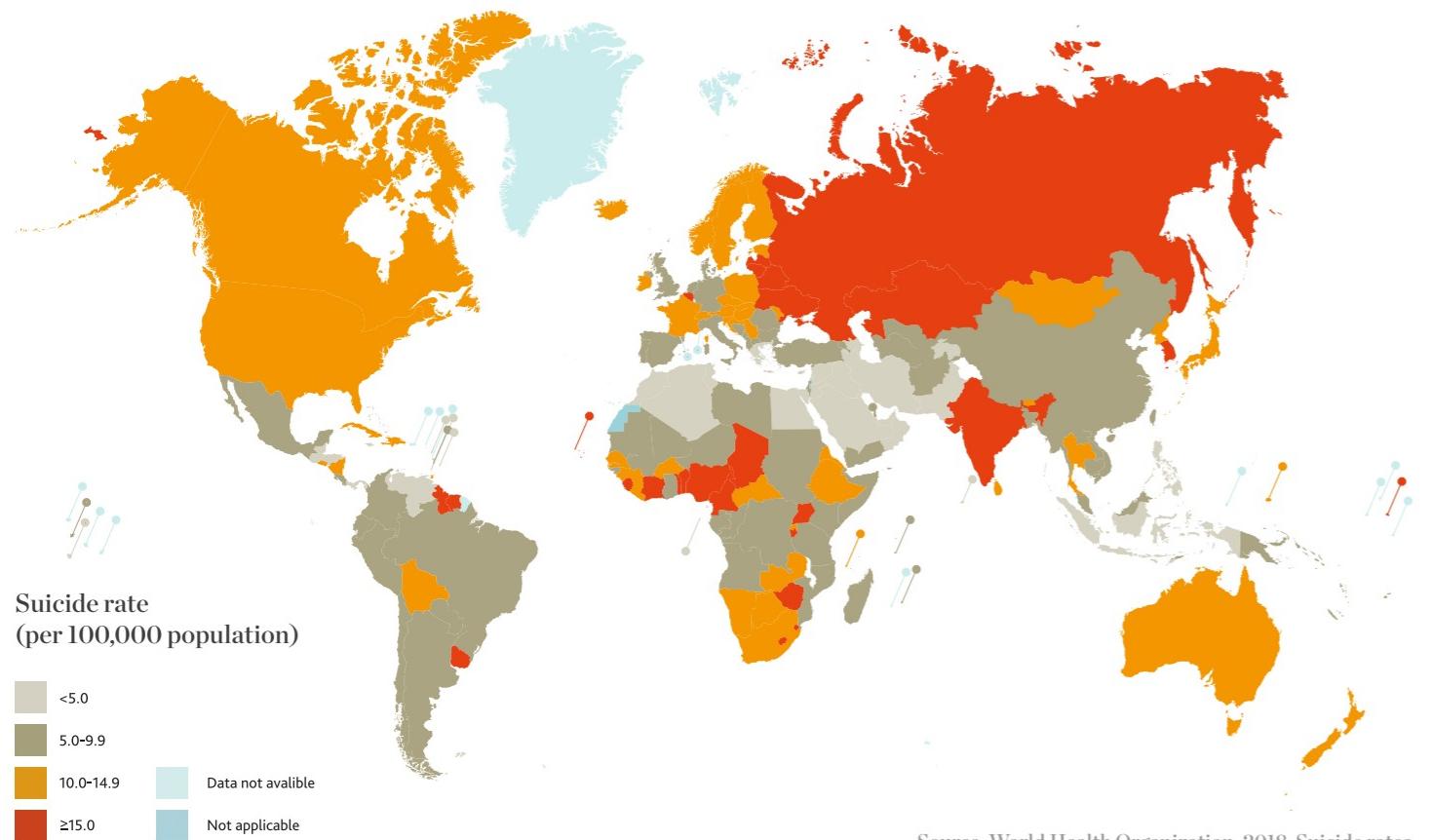
An early intervention service may be associated with reductions in the suicide rate among patients with schizophrenia-spectrum disorders during their most vulnerable period, and the benefits may persist in the long-term³⁸. Yet suicide numbers are still too high¹⁵, and likely to be underreported due to stigma, criminalization and poor surveillance systems⁵



SUICIDE PROTECTIVE FACTORS INCLUDE⁷

- Effective clinical screening and diagnosis and care for mental, physical, and substance abuse disorders
- Easy access to a variety of clinical interventions (including behavioural therapy and/or pharmacological treatment)
- Support from ongoing medical and mental health care relationships to support follow-up after discharge and treatment adherence¹
- Family and community support (connectedness)
- Cultural and religious beliefs (pending cultural and contextual practices and interpretations)
- Skills in problem solving, conflict resolution and disputes

AGE-STANDARDIZED SUICIDE RATES (PER 100,000 POPULATION), BOTH SEXES, 2016



Source: World Health Organization, 2018. Suicide rates.

SUICIDE PREVENTION: DOs¹ AND DON'Ts

DOs

Educate (yourself and others) about suicide prevention and resources while debunking myths.

When communicating, always mention where to seek help from services available 24/7.

When communicating, be mindful about celebrity suicides (focus on their life);

Consider including narratives of people who managed to cope with suicidality to inspire others.

As a primary health care provider (PHCP), be attentive to warning signs, aware of interview techniques and refer to the appropriate healthcare service/specialist.

As a healthcare professional (HCP), convey hope when diagnosing and managing a chronic or physical illness.

As a psychiatrist, ensure you are attentive to warning signs, establish a frank discussion with your patients (ask questions about suicide behaviour), follow-up on treatment adherence and refer to local peer-to-peer support groups.

As a family member, a friend, or a colleague be attentive to warning signs and encourage them to contact medical and professional support.

As a family member or a friend, establish a safe space to have discussions on how they feel and if they are thinking about suicide. Reassure them they are not alone. Remove methods of suicide and have a list of emergency contacts at hand.

DON'Ts

Fear suicide contagion and avoid talking about it.

When communicating, don't use information detailing or visualizing the method used or the location.

When communicating, don't use sensationalist language glamourizing suicide.

As an HCP, don't overlook warning signs as many of those who die by suicide have had contact with PHCPs within the month prior to the suicide.

As a HCP, avoid a tone of voice with a sense of doomed when diagnosing and managing a chronic or physical illness.

As a psychiatrist, don't fear planting a "suicide seed" in your patient's mind.

As a family member, friend or colleague don't ignore warning signs.

As a family member or a friend, don't stigmatize suicidal behavior and underestimate your role.

An important challenge on suicide prevention relates to the quality of the data collected and the risk of under-reporting (e.g. potentially due to prevailing social or religious attitudes). In some places, it is believed that

suicide is underreported by a percentage between 20% and 100%³⁹

Another big challenge is the failure of healthcare systems

to cater for people with suicidal thoughts and behaviours: GPs have increasingly limited time with each patient which can present challenges in identifying suicidal warning signs in their patients⁴⁰.

When at-risk patients are identified, healthcare professionals need to exercise clinical judgement to determine the proper course of action. In the case of involuntary hospitalisation, the overall lack of hospital beds within acute psychiatry⁴¹ and fact that psychiatric hospitalisation itself presents many challenges to both provider and patient can complicate recovery. For many patients, the loss of independence, internalised

and externalised stigma, and increased stress prompted by psychiatric hospitalisation must be balanced along with the need for intensive treatment services⁴²

SUICIDE WARNING SIGNS⁵²

Most people who take their lives exhibit one or more warning signs.

TALK ABOUT

- Ending their lives
- Feeling hopeless
- Having no reason to live
- Being a burden to others
- Feeling trapped
- Unbearable pain

BEHAVIOUR

- Increased use of alcohol or drugs
- Looking for a way to end their lives, such as searching online for methods
- Withdrawing from activities
- Isolating from family and friends
- Sleeping too much or too little
- Visiting or calling people to say goodbye
- Giving away prized possessions
- Aggression
- Fatigue

MOOD

- Depression
- Anxiety
- Loss of interest
- Irritability
- Humiliation/Shame
- Agitation/Anger
- Relief/Sudden improvement

3.

Suicide is not only a health issue: it is a societal one.
A multi-sectoral societal approach to national prevention plans
is needed to help prevent suicides

LUNDBECK'S 10 RECOMMENDATIONS

POLICY



1. Ensure a national suicide prevention plan is in place and is adequately funded and monitored¹
2. Invest in national data monitoring systems and in suicidology research, e.g. on protective factors
3. Provide access to early intervention services in mental health, individualized care and treatments (including psychosocial and pharmacological interventions) as recommended by the WHO¹ and the International Association for Suicide Prevention⁴³

HEALTHCARE



4. Encourage the enrolment of medical students in the specialization of psychiatry, which is declining due to stigma of the profession, on the type of patients and of available treatments⁴⁴
5. Train (primary) healthcare professionals, to recognize, refer and manage mental and substance use disorders¹; to identify suicidal behaviour; and to convey hope to their patients with chronic disease and chronic pain⁴⁵. Ensure secondary healthcare professionals, including psychiatrists, are aware of evidence-based interventions for suicidal behaviour⁴⁶

COMMUNITY



6. Train first responders, welfare workers, educators, religious leaders¹, nursing home staff, families of people at-risk, on suicide risk factors, warning signs, adequate language and referrals to specialized care
7. Include mental health, suicide prevention and conflict resolution in school curricula
8. Put in place national media guidelines on how to report on suicide, which abide by the WHO standards and train journalists and online influencers accordingly⁴⁷
9. Reduce access to methods and secure surveillance to hot spots (e.g. bridges, rail tracks)⁴⁸
10. Support the advocacy community to drive (a) peer-to-peer support groups for attempt survivors and for families to provide a sense of connectedness; (b) suicide prevention campaigns on World Suicide Prevention Day (10 September) and World Mental Health Day (10 October) and Movember (November); (c) 24/7 helpline¹

WHAT TO SAY AND WHAT NOT TO SAY⁴⁷



DON'T SAY...

Failed/unsuccessful attempt

Committed suicide (implies illegality, e.g. commit a crime);
Completed suicide (implies accomplishment)

A person who failed a suicide attempt

... SAY INSTEAD

Previous attempt OR non-fatal suicidal behaviour

Died by suicide OR took his/her life

A suicide attempt survivor

According to the WHO,
despite being a preventable leading
cause of death worldwide,
**suicide prevention has not
received the financial or
human investment it needs¹**

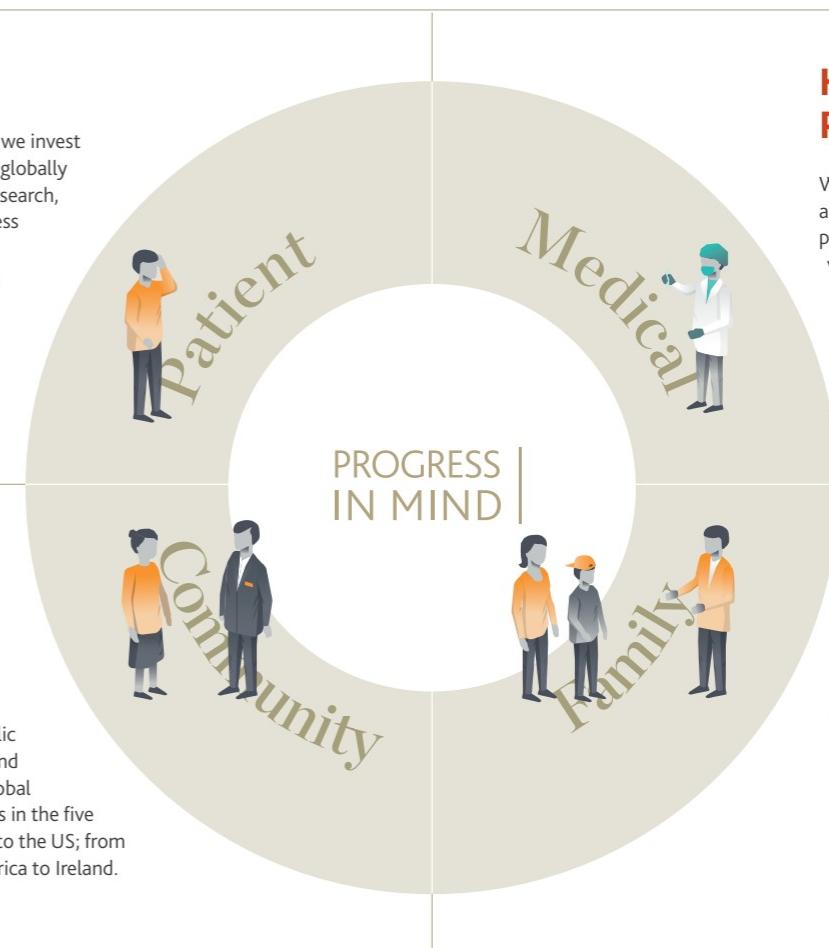
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As a leader in restoring brain health, Lundbeck is committed to supporting mental health promotion and suicide prevention strategies

AT LUNDBECK, WE BELIEVE IN A MULTI-SECTORAL APPROACH TO SUICIDE PREVENTION

PATIENTS

So every person can be their best, we invest in patient education programmes globally and locally and we invest in the research, the development and patient access to treatments for depression, schizophrenia and bipolar disease.



COMMUNITY

We believe in establishing strong partnerships with the advocacy community to raise awareness and educate the media, policy-makers, healthcare professionals and the general public about mental health promotion and suicide prevention. Beyond our global partnerships, we have partnerships in the five corners of the world: from China, to the US; from Spain to Indonesia; from South Africa to Ireland.

HEALTHCARE PROFESSIONALS

We provide medical education and training on mental health promotion and suicide prevention via the Lundbeck Institute seminars, publications and online campus as well as through our disease education online platform Progress in Mind Resource Center.

FAMILY

We sponsor education programs, awareness campaigns and tools targeted at families of people with psychiatric disorders. These include information about suicide prevention.

Suicide is preventable³

(circa 35% of Lundbeck's workforce) can take advantage of the following preventive and early care services: stress prevention courses, stress-coach scheme and psychologic help. Continuously, we will focus on the importance of early care and further strengthen the dialogue on well-being and health resilience.

AS AN EMPLOYER OF 5,000 PEOPLE WORLDWIDE

Lundbeck encourages every employee to become an Ambassador of change and take part of awareness raising campaigns, such as World Mental Health Day. In our affiliates, "mental health first aid" training courses (of which suicide prevention is part of) have been delivered in the UK and the US. In South Korea, our affiliate has been the first company in the country to train all its workforce as suicide

prevention gatekeepers. Lundbeck Brazil partnered with the Brazilian Psychiatry Association to educate its employees on suicide prevention during "Yellow September" suicide awareness month. Employees in the US have access to the Employee Assistance Program (EAP) which provides access and referrals to mental health and support services. Our employees based in Denmark

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If you are thinking of suicide or are in immediate danger, please contact your local emergency services, your doctor and/or your nearest mental health crisis center

You can find a list of crisis centres around the world here:

www.iasp.info/resources/Crisis_Centres/



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**SUSTAINABLE
DEVELOPMENT
GOALS**

This booklet was initiated and produced by H. Lundbeck A/S in support of the UN Sustainable Development Goals, which aim to improve mental health and reduce suicide rates. It was drafted in consultation with experts in the field. The information in this booklet is for education purposes only. It is not intended as a substitute for informed medical advice or training.